Front End Development

Project Report

Semester-IV (Batch-2022)

Yummy-Bites

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Abstract

The website makes it super easy for you to order the food you love .You can order food from a variety of sources, including restaurants, cafes and online food delivery services .we'll bring it right to your door, so you don't even have to leave your house!

In the digital age, the demand for convenient and efficient food delivery services has surged. This abstract outlines the development of a food delivery website utilizing React.js, a popular JavaScript library for building user interfaces. The project focuses on creating a responsive, user-friendly platform that caters to both customers and restaurant partners, enhancing the overall food ordering and delivery experience.

An Online Food Ordering System is proposed here which simplifies the food ordering process. The proposed system shows an user interface and update the menu with all available options so that it eases the customer work. Customer can choose more than one item to make an order and can view order details .

The project emphasizes creating a seamless experience for users and restaurant partners, incorporating advanced features and ensuring high performance and maintainability.

The purpose of Online Food Ordering System is to automate the existing manual system by the accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

The Online Food Ordering System's main purpose is to maintain track of information such as Item Category, Food, Delivery Address, Order, and Shopping Cart. It keeps track of information about the Item Category, the Customer, the Shopping Cart, and the Item Category. Only the administrator gets access to the project because it is totally built at the administrative level. The project's purpose is to develop software that will cut down on the time spent manually managing Item Category Food, Customer, and Delivery Address. It saves the Delivery Address, Order, and Shopping Cart information.

CONTENTS

1. Introduction

The online food delivery industry has experienced rapid growth over the past decade, fundamentally transforming how people access and consume meals. As consumers increasingly prioritize convenience, variety, and speed, online food delivery platforms have become an integral part of daily life. This introduction explores the development of an online food delivery website, focusing on leveraging modern web technologies to create a seamless, efficient, and user-friendly experience for both customers and restaurant partners.

The customer doesn't have to stand in a long queue in a hot humid day for their food. They just have to order the food on their phones and food will be at their doorsteps.

Objectives

The primary objectives of this project are:

1. **Develop an Intuitive User Interface:** Create a user-friendly and visually appealing interface that enhances user engagement and simplifies the navigation process.
2. **Implement Comprehensive Functionality:** Provide features for browsing menus, placing orders, and tracking deliveries in real-time, ensuring a smooth and efficient user experience.
3. **Ensure Seamless Backend Integration:** Integrate with backend services to manage user authentication, payment processing, and order management securely and efficiently

Tools and Technologies

In this we have used :

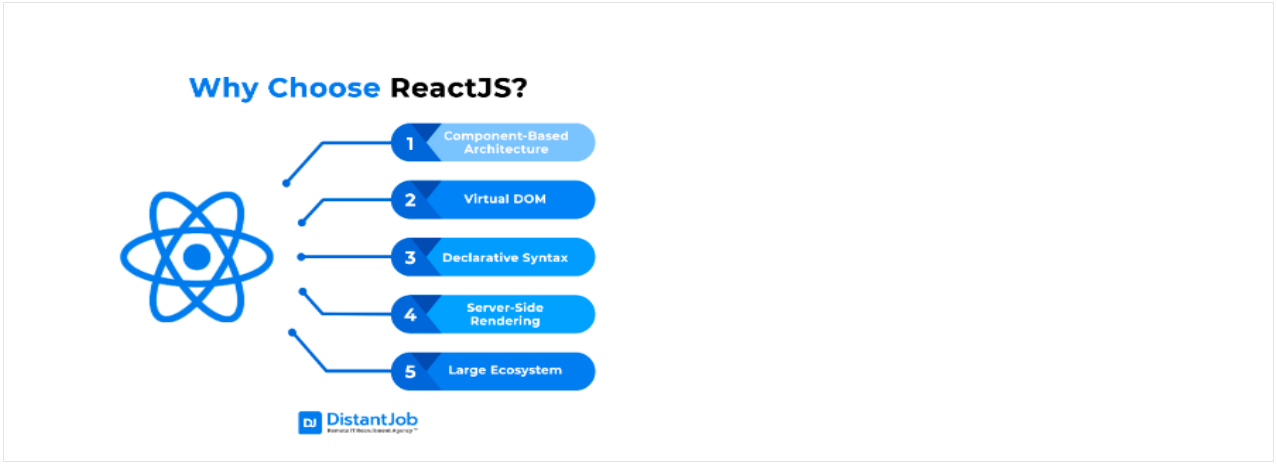
HTML5 →It is used for creating and structuring the content of web pages

CSS → It is used to style and layout webpage.

JAVASCRIPT → It is used to make webpage interactive(had used reactjs library here.

Why Reactjs Library?

Before the invention of React.js, when performing an action like clicking a button, the entire page would often refresh, causing the entire DOM tree to re-render. With the introduction of the React.js library, this issue was addressed, and now, re-renders occur only when necessary.



1.1 Background

The Rise of Online Food Delivery Services

Over the past decade, the food delivery industry has undergone a remarkable transformation, driven by advancements in technology and shifting consumer behaviors. Traditionally, food delivery was limited to phone orders and a few local restaurants. However, with the proliferation of smartphones and the internet, the landscape has dramatically changed. Today, consumers can explore a vast array of dining options, compare prices, read reviews, and place orders online with unprecedented ease and convenience.

The COVID-19 pandemic further accelerated the adoption of online food delivery services. With lockdowns and social distancing measures in place, many consumers turned to these platforms for their meals, leading to a significant surge in demand. This period highlighted the essential role of online food delivery services in modern society, offering both convenience and safety.

Objectives

1. Enhance User Experience :

- **Intuitive Interface:** Design a user-friendly interface that simplifies navigation, making it easy for users to browse menus, place orders, and track deliveries.
- **Responsive Design:** Ensure the website is fully responsive, providing a seamless experience across various devices, including desktops, tablets, and smartphones.
- **Personalization:** Implement features that personalize the user experience, such as personalized recommendations based on previous orders and user preferences.

2. Streamline Order Management for Restaurants :

- **Efficient Order Processing:** Develop a system that allows restaurants to manage orders efficiently.

2. Optimize for Performance and Scalability

- **High Performance:** Ensure the website is fast and responsive, providing a smooth user experience even under high traffic.

By focusing on these objectives, the development of a food delivery website using React.js aims to create a comprehensive platform that meets the needs of modern consumers and restaurant partners alike. The project will leverage the strengths of React.js to deliver a high-performance, scalable, and user-friendly application that stands out in the competitive food delivery market.

Significance

Developing a food delivery website holds significant importance in modern society, offering benefits to various stakeholders including consumers, restaurants, and the food delivery service itself. Here are some key significances behind creating a food delivery website:

Convenience for Consumers:

1. **Time-saving:** A food delivery website allows consumers to order their favorite meals from the comfort of their homes or workplaces, saving them time and effort compared to traditional dining or cooking.

2. **Accessibility:** It provides access to a wide variety of cuisines and restaurants that may not be available locally, expanding choices for consumers with diverse tastes and preferences.

3. **Flexibility:** Consumers can place orders at any time of the day or night, catering to different schedules and lifestyles.

4. **Ease of Use:** With intuitive interfaces and features like saved preferences and order history, food delivery websites make the ordering process simple and convenient for users.

Increased Revenue for Restaurants:

1. **Expanded Reach:** By partnering with a food delivery service, restaurants can reach a broader audience beyond their physical location, tapping into new markets and customer segments.

2. **Increased Sales:** Food delivery websites drive additional sales for restaurants by offering an alternative revenue stream and attracting customers who prefer dining at home.

3. **Marketing Opportunity:** Being featured on a food delivery website provides exposure and marketing opportunities for restaurants, helping them attract new customers and build brand awareness.

4. **Operational Efficiency:** With streamlined order management systems, restaurants can efficiently process orders and manage inventory, reducing wait times and operational costs.

In summary, the significance of a food delivery website lies in its ability to provide convenience and choice for consumers, generate revenue and exposure for restaurants, create business opportunities for food delivery services, and contribute to societal well-being by fostering accessibility, community support, and environmental sustainability.

Software Requirements

1 . HTML (Hypertext Markup Language)

- Foundation of web development for structuring content on a webpage.
- Utilizes tags to define elements such as headings, paragraphs, images, and links.
- Provides the basic structure for creating web pages and is essential for building the user interface.

2. CSS (Cascading Style Sheets)

- Stylesheet language used for describing the presentation of a document written in HTML.
- Enables the separation of content and presentation, allowing for consistent styling across multiple pages.
- Includes selectors, properties, and values to define the visual appearance, layout, and design of HTML elements.

3. React JS

- Component-Based Architecture: React facilitates the creation of interactive user interfaces through a

modular, component-based
approach, enhancing code reusability and maintainability.
- Virtual DOM and Efficient Rendering: React's virtual DOM efficiently updates the UI, minimizing re-renders and optimizing performance for
faster page loads and smoother user interactions.

Hardware Requirements

The hardware requirements for running the GitHub profile viewer are relatively modest, as the primary processing will be handled on the client-side and the backend server:

1. Computer or Server:

2. Internet Connection

Proposed Design / Methodology

Designing a food delivery website involves creating a user-friendly interface that seamlessly connects consumers with restaurants, menus, and ordering options. Here's a proposed design outline for a food delivery website:

1. Homepage:

- **Hero Section:** A visually appealing section showcasing popular dishes or promotions to capture users' attention.

- **Search Bar:** A prominent search bar allowing users to enter their location or cuisine preferences to find nearby restaurants.
- **Categories or Cuisine Filters:** Display categories or cuisine filters (e.g., Italian, Mexican, Asian) for quick navigation.

2. Menu Navigation:

- **Clear Categories:** Organize menu items into clear categories (e.g., salads, rolls , sandwich, desserts etc) for easy navigation.
- **Search Functionality:** Include a search bar within the menu to allow users to quickly find specific dishes or items.
- **Item Details:** Display detailed descriptions, images, and prices for each menu item, along with any customizable options or add-ons.

3. Ordering Process:

- **Add to Cart:** Enable users to add items to their cart with a single click, displaying a summary of their order.

4. User Account:

- **Registration/Login:** Provide options for users to register for an account or log in using email, social media, or guest checkout.
- **Feedback Mechanism:** Allow users to provide feedback and ratings for restaurants and delivery experiences, helping improve service quality.

5. Responsive Design:

- Ensure the website is fully responsive, adapting seamlessly to different screen sizes and devices, including desktops, tablets, and smartphones.
- Prioritize mobile optimization to accommodate users who prefer ordering on-the-go using their smartphones.

Schematic structure:

Creating a schematic structure for an online food delivery website involves outlining the key pages and features, as well as their relationships and interactions. This structure serves as a blueprint for the website, ensuring that all necessary components are included and logically organized. Here's a detailed schematic structure for an online food delivery website:

1. Homepage

- **Hero Section**
    - Featured images
    - Call-to-action buttons (e.g., "View Menu")
- **Search Bar**

- Cuisine/restaurant search

- **Categories**
  - Salad , Rolls , Sandwich , Deserts etc

2. Shopping Cart Page

- **Cart Items**
  - List of selected menu items
  - Item details (name, quantity)
  - Edit/remove options
- **Order Summary**
  - Subtotal
  - Total price
- **Checkout Button**
  - Proceed to checkout
- **Order Review**
  - Summary of order
  - Apply promo codes
  - Place order button

3. Order Confirmation Page

- **Order Detail:**
  - Summary of items and total cost

4. User Account Pages

- **Profile Page**
  - User information (name, email, phone number)
  - Edit profile button

5. Additional Features

- **Promotions Page**
  - Current deals and discounts
  - Promo codes

6. Footer

- **Quick Links**
  - Home

- Categories
- Popular restaurants

- **Legal Information**
  - Terms of service
  - Privacy policy
- **Social Media Links**
  - Facebook, Twitter, Instagram

Problem Statement

Imagine you're feeling hungry and craving a specific dish. Instead of cooking or driving to a restaurant, you decide to order food online. The convenience of having delicious meals delivered directly to your doorstep is one of the main attractions of food delivery websites. However, several challenges need to be addressed to make the experience seamless and enjoyable for users.

- Suppose you're hungry and want food delivered to your doorstep. But finding the right place, making sure the food arrives hot and tasty.
- That's where online food delivery websites come in. They're supposed to make it easy to order food from your favorite restaurants. But sometimes, it's not as smooth as we'd like.
- So, the challenge is to create a website that's super easy to use, makes sure your food arrives on time and offers lots of tasty options.
- By solving these problems, we can make hungry customers happy and keep them coming back for more.

In summary, creating a successful online food delivery website involves overcoming challenges related to user convenience, food quality, and variety, ensuring a seamless, enjoyable experience for customers. By addressing these key areas, the website can satisfy hungry customers and foster loyalty, ensuring long-term success.

Summary:

Online food delivery websites provide a convenient platform for users to order food from a variety of local restaurants and have it delivered to their doorstep. These websites typically offer several key features:

1. **User Interface**: They have user-friendly interfaces where customers can browse menus, read reviews, and view ratings for different restaurants. Menus are often organized by cuisine type, popularity, and dietary preferences.

2. **Order Placement**: Users can place orders directly through the website or app. The process usually involves selecting items, customizing orders, adding special instructions, and specifying delivery details.

3. **Payment Options**: A variety of payment methods are accepted, including credit/debit cards, digital wallets, and sometimes cash on delivery. Secure payment gateways ensure the safety of financial transactions.

4. **Real-Time Tracking**: Many platforms offer real-time order tracking, allowing users to see the status of their order from preparation to delivery.

5. **Promotions and Discounts**: They often feature promotions, discounts, and loyalty programs to attract and retain customers.

6. **Customer Support**: Comprehensive customer support through chat, email, or phone is typically available to assist with order issues, refunds, and other inquiries.

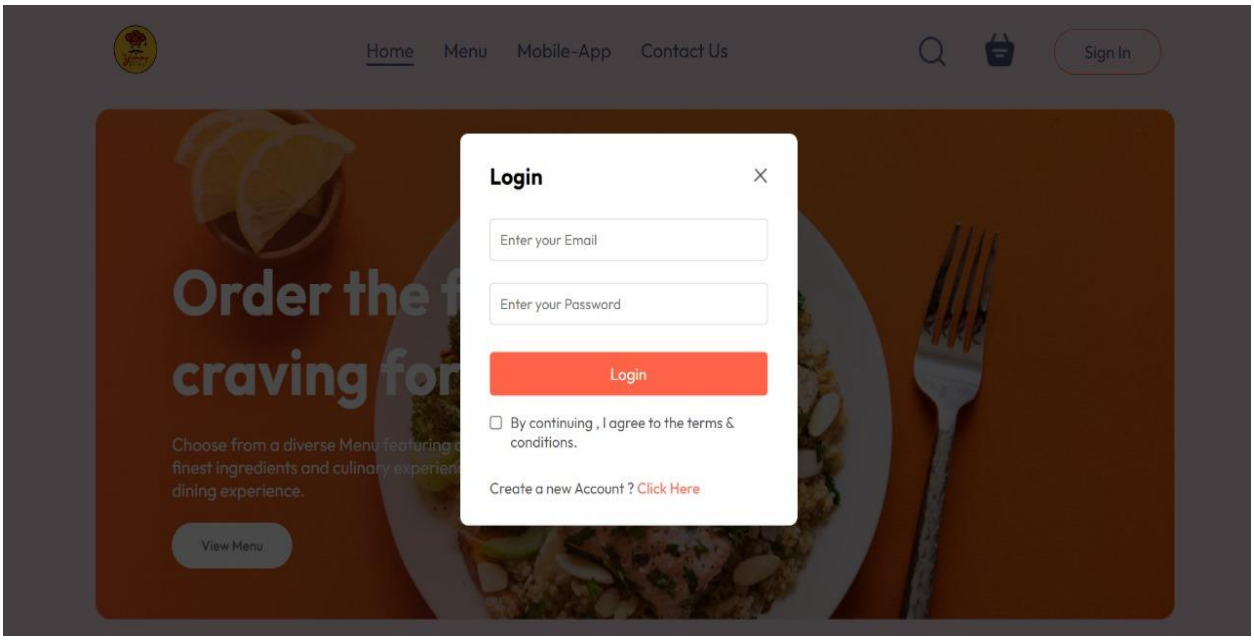
7. **Restaurant Partnerships**: These websites partner with a wide range of restaurants, from fast food to fine dining, providing extensive options for users.

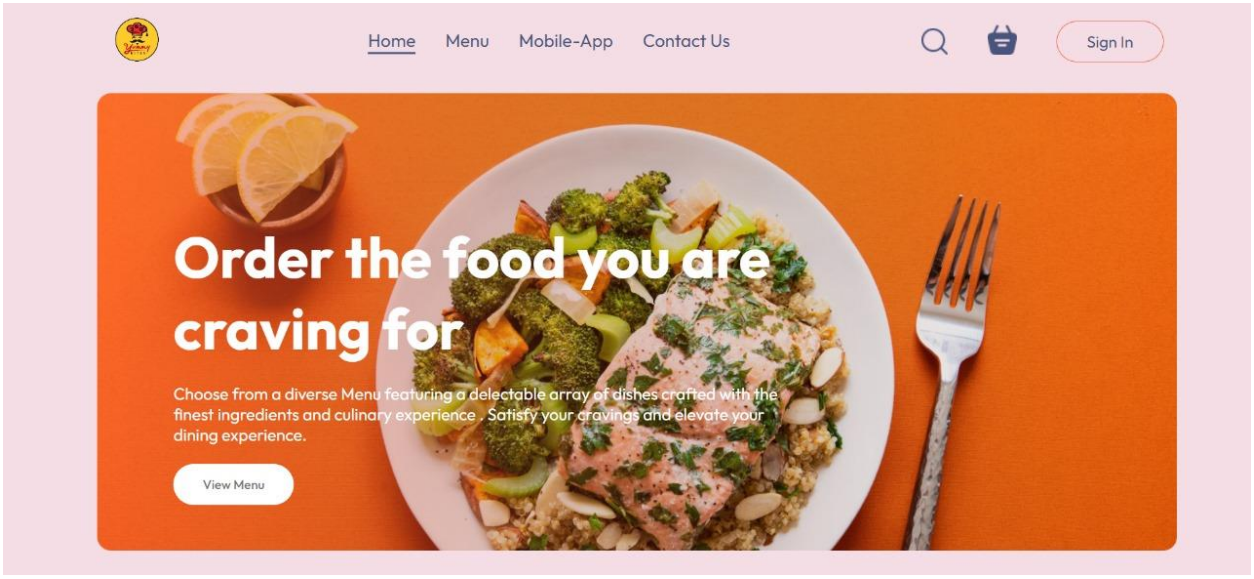
8. **Reviews and Ratings**: Users can leave reviews and rate their experiences, which helps maintain quality and guides other customers in their choices.

9. **Subscription Services**: Some platforms offer subscription services for regular users, providing benefits like free delivery or exclusive discounts.

Overall, online food delivery websites aim to enhance the convenience and variety of dining options available to users, making it easier to enjoy restaurant-quality food at home.

Result


Home
Menu
Mobile-App
Contact Us
Sign In
Login
Enter your Email
Enter your Password
Login
By continuing , I agree to the terms & conditions.
Create a new Account ? Click Here
Order the f
craving for
Choose from a diverse Menu featuring
finest ingredients and culinary experien
dining experience.
View Menu


Home
Menu
Mobile-App
Contact Us
Sign In
Order the food you are craving for
Choose from a diverse Menu featuring a delectable array of dishes crafted with the finest ingredients and culinary experience . Satisfy your cravings and elevate your dining experience.
View Menu


Salad


Rolls


Deserts


Sandwich

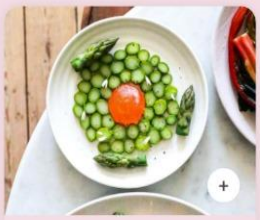

Cake


Pure Veg


Pasta


Noodles

Top Dishes Near You


Greek salad ★★★★☆


Veg salad ★★★★☆


Clover Salad ★★★★☆


Chicken Salad ★★★★☆

Home Menu Mobile-App Contact Us

Sign In

Items	Title	Price	Quantity	Total	Remove

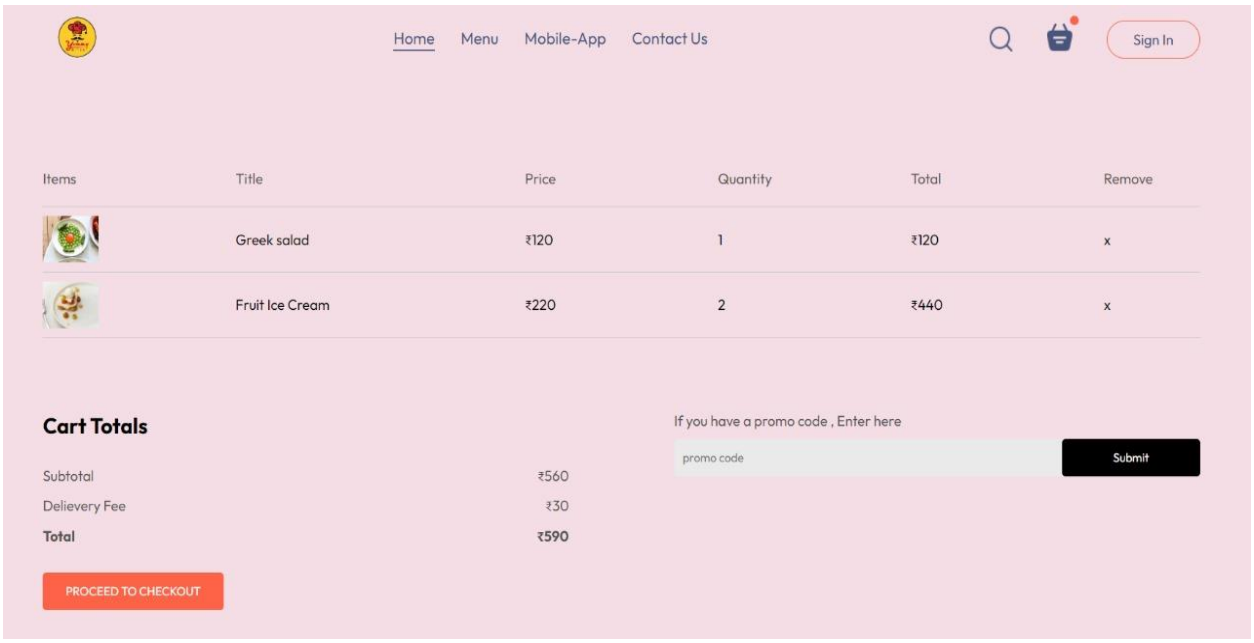
Cart Totals

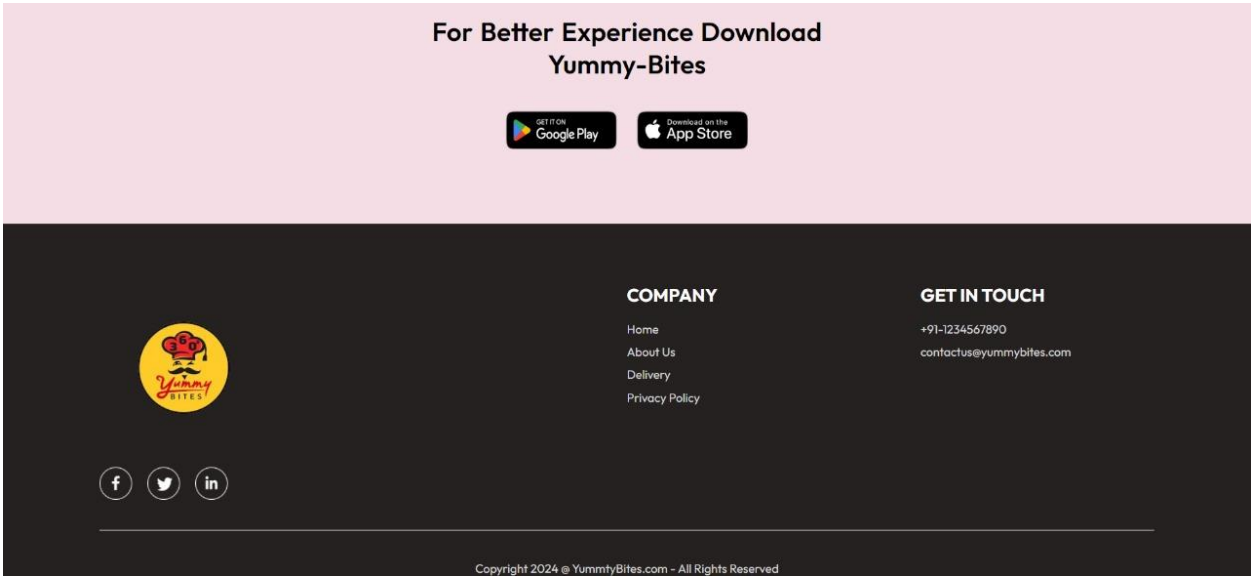
Subtotal	₹0
Delievery Fee	₹0
Total	**₹0**

PROCEED TO CHECKOUT

If you have a promo code , Enter here

promo code Submit





Reference

We have taken reference from :

- **W3Schools →** www.w3schools.com

- https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Client-side_JavaScript_frameworks/React_getting_started
- **YouTube**: →https://www.youtube.com/watch?v=Xe8CkYZvCig&t=4237s
- https://www.youtube.com/playlist?list=PLu0W_9lII9agx66oZnT6IyhcMIbUMNMdt